

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Chang-Jun Ahn

Application No.: National Phase of  
PCT/JP2004/000171

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: Communication System, Transmitter, Receiver,  
Transmitting Method, Receiving Method, and  
Program

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Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS: PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

Application No.: National Phase of PCT/JP2004/000171

Docket No.: 215384-106380

JAP20 Rec'd PCT/PTO 13 JUL 2006

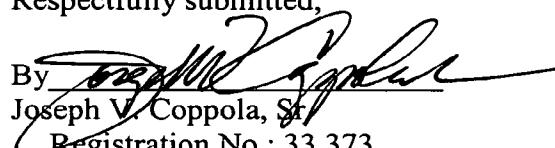
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-3145, under Order No. 215384-106380.

Dated: July 12, 2006

Respectfully submitted,

By   
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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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| Substitute for form 1449A/B/PTO |   |    |   | <b>Complete if Known</b> |                               |
|                                 |   |    |   | Application Number       | Not Yet Assigned<br>107365898 |
|                                 |   |    |   | Filing Date              | Concurrently Herewith         |
|                                 |   |    |   | First Named Inventor     | Chang-Jun Ahn                 |
|                                 |   |    |   | Art Unit                 | N/A                           |
|                                 |   |    |   | Examiner Name            | Not Yet Assigned              |
| Sheet                           | 1 | of | 1 | Attorney Docket Number   | 215384-106380                 |

| <b>U.S. PATENT DOCUMENTS</b> |                       |  |                                |  |   |
|------------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials*           | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                              |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                              |                       |  |                                |  |   |

| <b>FOREIGN PATENT DOCUMENTS</b> |                       |   |                                |  |   |
|---------------------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials*              | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages or Relevant<br>Figures Appear |
|                                 |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |
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| <b>NON PATENT LITERATURE DOCUMENTS</b> |                       |   |  |  |                |
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| Examiner Initials                      | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  | T <sup>2</sup> |
| /LN/                                   | CA                    | Antenna-Phase Controlled SDM/OFDM With Polarization Diversity for Dynamic Parameter Controlled OFDM System (The Institute of Electronics, Information and Communication Engineers), Technical Report of IEICE, DSP2003-188, SAT2003-185, RCS2003-283(2004-01)   |  |  |                |
| /LN/                                   | CB                    | Space Division Multiplexing (SDM) for OFDM Systems, 2000 IEEE, 51st Vehicular Technology Conference Proceedings, May 15-18, 2000 Tokyo, Japan   |  |  |                |
| /LN/                                   | CC                    | A Combined OFDM/SDMA Approach, IEEE Journal on Selected Areas in Communications, Wireless Communications Series, November 2000, Vol. 18, No. 11, November 2000  |  |  |                |
| /LN/                                   | CD                    | Experimental Results of Cross Polarization Discrimination and Signal Correlation Values for a Polarization Diversity Scheme, 1997 IEEE 47th Vehicular Technology Conference, Phoenix, AZ, May 4-7, 1997   |  |  |                |
| /LN/                                   | CE                    | OFDM/SDM System Using Adaptive Transmit Phase Control to Mitigate Co-Channel Interference, 2002 IEEE 56th Vehicular Technology Conference Proceedings, Vol. 4 of 4, Vancouver, Canada September 24-28, 2002   |  |  |                |

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|                               |                    |                 |            |
|-------------------------------|--------------------|-----------------|------------|
| Examiner Signature<br>1080804 | /Leon Viet Nguyen/ | Date Considered | 05/22/2009 |
|-------------------------------|--------------------|-----------------|------------|

10/585898  
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Application No. (if known): Not Yet Assigned

Attorney Docket No.: 215384-106380

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